MTH 141 Introductory Calculus – Fall 2016

MTH 141 Fall 2016 - Calendar

The following calendar gives a timetable for the course. Your class may be slightly behind or ahead at any given time. Some of the problems may be done in class, others as homework. Your instructor will be more specific. You should work out all the problems given below. NOTE: notation like "3-9" means that all problems from 3 to 9 are to be done. Textbook: Calculus: Single Variable, by Hughes-Hallet et al, **6th ed.**, Wiley.

Week	Dates	Sections/Events/Exams	Problems (*) = requires technology
1	Sept. 7	***First Day of Class Wed. Sept. 7***	
	|	(1.1) Functions and Change	(1.1) 1,6,9,12,16*,17,21,26,37,40,43,44*,51,55
	Sept. 9	(1.2) Exponential Functions	(1.2) 5-14,22*,23,30*,35*,37,38
2	Sept. 12	(1.3) New Functions From Old	(1.3) 1,2,3,8,11,13,15,23,24,28-31,36,37,,55
	|	(1.4) Logarithmic Functions	(1.4) 3,7-13,19,20,25,29,30,32*,33*,40*,50*
	Sept. 16	(1.5) Trigonometric Functions	(1.5) 14-19,22-23,27,30,33,39,41,43,44,51
		(1.6) Powers, Polynomials, and Rational Functions	(1.6) 3-10,19-22,36-38,45*,46*
3	Sept. 19	(1.7) Introduction to Continuity	(1.7) 2-7,19-21,24-25,27,32,37
	|	(1.8) Limits	(1.8) 1-3,7-9,12-15,19*,23*,25*,29,31,54-62,64-67
	Sept. 23	(2.1) How do we measure speed?	(2.1) 1,3-5,8,9*,14-17,21,23,24*,25-28
4	Sept. 26	(2.2) The Derivative at a Point	(2.2) 1,4,10-13,17*,26*,35-38,41-50
	|	(2.3) The Derivative Function	(2.3) 1,3,7,9,11,13,15,16,19,21,28,29,31,33,43
	Sept. 30	(2.4) Interpretations of the Derivative	(2.4) 1-4,6,9,11,12,18,21
5	Oct. 3	***EXAM 1 6:30pm-8.00pm Wed. Oct 5, Chafee 271***	
	|	(2.5) The Second Derivative	(2.5) 2-4,8-13,16,18-23,28-31
	Oct. 7	(2.6) Differentiability	(2.6) 1-4,6*,9,12,16
6	Oct. 10	(3.1) Powers and Polynomials (*Oct 10 no class*)	(3.1) 6-47odd,50-55-59,60,63,70,71
	|	(3.2) The Exponential Function (*Oct 12 makeup day*)	(3.2) 1-25odd,40,41
	Oct. 14	(3.3) The Product and Quotient Rules	(3.3) 3-29odd,31,32,39-42,45,52,53
7	Oct. 17	(3.4) The Chain Rule	(3.4) 1-55 odd, 57,58,61,62,67,76ab,77
	|	(3.5) The Trigonometric Functions	(3.5) 10,11,18,21,27-30,38,42,62
	Oct. 21	(3.6) The Chain Rule and Inverse Functions	(3.6) 1-8,21-28,43,57-59,63,65
8	Oct. 24	(3.7) Implicit Functions	(3.7) 1-20odd,26-30,31-33,37
	|	(3.8) Hyperbolic Functions	(3.8) 1-11,30
	Oct. 28	(3.9) Linear Approximation and the Derivative	(3.9) 1-7,10,11*,13*,14,20-22,30,31,36,38,39
9	Oct. 31	***EXAM 2 6:30pm-8.00pm Wed. Nov 2, Chafee 271***	(3.10) TBA (4.1) 1,4-14,16-19,28-29,33,38-40
	|	(3.10) Theorems about Differentiable Functions	
	Nov 4	(4.1) Using First and Second Derivatives	
10	Nov. 7	(4.2) Optimization	(4.2) 1-25odd,27,28,29*,36
	|	(4.3) Optimization and Modeling	(4.3) 1-9 odd, 17, 20-21, 28-30
	Nov. 11	*Nov. 11 no class- Veterans Day*	
11	Nov. 14	(4.6) Rates and Related Rates	(4.6) 1,2,5,7,11,12,16-19,25-29,33,44
	|	(4.7) L'Hopital's Rule, Growth, and Dominance	(4.7) 1-8, 16-18, 25-41 odd, 48,49
	Nov. 18	(5.1) How Do We Measure Distance Traveled?	(5.1) 1-4, 6-12,13,15,17-18,24-25,27
12	Nov. 21	(5.2) The Definite Integral	(5.2) 3-4,11-17,19, 22*-28*, 31,32
	|	(5.3) The Fundamental Theorem and Interpretations	(5.3) 3-7,9-12,21,31,42
	Nov. 25	***(No classes Thanksgiving Break Nov. 24 – Nov. 27***	(5.3) 3-7,9-12,21,31,42
13	Nov. 28	5.4) Theorems About Definite Integrals	(5.4) 2-12,13*-17*,21,24,27-30
	|	(6.2) Constructing Antiderivatives Analytically	(6.2) 1-60,65-67,70-71
	Dec. 2		
14	Dec. 5	***EXAM 3 6:30pm-8.00pm Mon. Dec. 5 , Chafee 271***	
	|	(6.1) Antiderivatives Graphically and Numerically	(6.1) 2-9,13-14,17,19,23,25
	Dec. 9	(6.4) The Second Fundamental Theorem of Calculus	(6.4) 4-5,11-14,35-38
15	Dec 12	Last Day of Classes – *Nov 11 Veterans day makeup day*	